

There are six screen: **EDIT REPORTS,**

The **EDIT VIEWS** program modules model is from the provided, or create the states for which

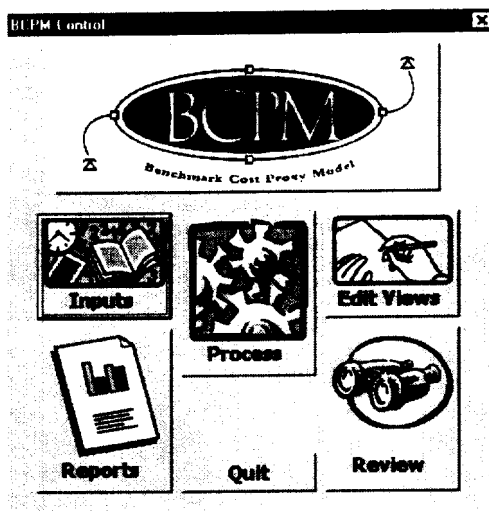
The **INPUTS** button the global and

The **PROCESS** which modules you would like to process (Loop, Transport, Switching, Signaling and Capcost). It also allows you to confirm the states and View you have selected.

The **REPORTS** button allows you to set report parameters and formats and generate reports.

The **REVIEW** button allows you to examine the calculations performed under the View you have selected or created.

The **QUIT** button returns you to the BCPM **START** screen. Select File, Exit from the Excel menu to end your session.



buttons on the main menu **VIEWS, INPUTS, PROCESS, REVIEW, and QUIT.**

button allows you to select the and data sets used when the processed. You can select configurations or Views a custom View. You also select you would like results.

allows you to view and modify state-specific data inputs.

button allows you to select

## Edit Views

By allowing for various configurations or Views, BCPM allows the user to control the modules and data sets processed by the model. The user can create a custom View or use one of the default Views provided. The default Views are described below:

- BCPM View – BCPM sponsors'<sup>1</sup> default view
- BCPM 18K View – BCPM sponsors' default view incorporating FCC specification for 18K grids
- FCC View - BCPM sponsors' view for FCC depreciation lives and cost of money
- FCC 18K View – BCPM sponsors' view with FCC depreciation lives, cost of money and 18K grid specification

By selecting the **EDIT VIEWS** button from the main dialog box, you can see the module and data sets associated with each of the default Views, as shown below:

<sup>1</sup> BCPM sponsors include BellSouth, Sprint, and US WEST.

View	Name	Date Created
Base	Bcpm	9/30/97

Description  
Base View with Using Enhanced Run time Sorted Data

Module	Module Set	Data Set
loop:	Loop.xls	Base_Loop2_BRTS
transport:	Trans.xls	Trans.csv
switching:	Switch.xls	Switch.csv
signaling:	Signal.xls	Signal.csv
capcost:	CAPCOST.XLS	

Module:

Dataset:

Buttons: Delete, Update, New, Close

The four sections of the **EDIT VIEWS** window are described below:

## Selecting Views

The top left window allows you to select a View to process. When you select

a View, the date it was created and a description are displayed.

## Selecting States

The states that could be processed and those selected are shown in the top right window. You can select a state by highlighting the state name and clicking the ">" button. To ensure all states are available under a particular view, select the ">>" button. To remove one or all of the states from the selected list, use the opposing arrow(s) buttons. Any combination of states can be associated with a particular view.

## Modifying View Module or Data Sets

The bottom left window includes the existing setup of the View in table form. To change the module file or data set used, highlight the appropriate module and select the replacement module or data set from the corresponding drop down menus.

## Modifying View Files

You can Ddelete a view, modify an existing view (Uppdate), create a New view or Close in the dialog box in the bottom right window.

If you would like to edit data inputs, make sensitivity runs, or modify modules, it is recommended that you create a new View rather than modify an existing file.

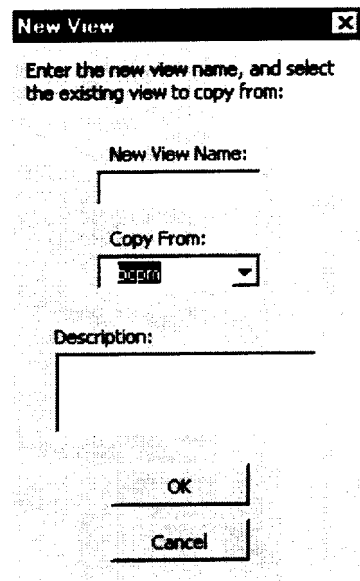
When you click on the New button, you are presented with the following dialog box:

The New View dialog view you wish to copy you are creating. After **OK** button and the you can select it from and modify the module processing, as your modifications, under the new View file

Once you have created inputs.

## Changing

To change inputs, click dialog box.



**New View**

Enter the new view name, and select the existing view to copy from:

New View Name:

Copy From:

Description:

OK Cancel

box asks you for a name, the existing from, and a text description of the view you enter the information, click on the system will create a new View. Then, the View window as described above set, data set, or states available for necessary. When you have completed select Update to save your changes name.

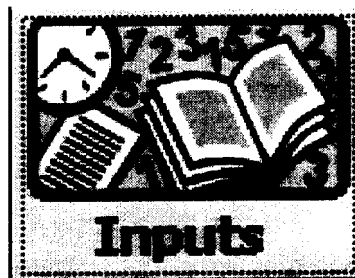
a new View you can then modify

## Inputs

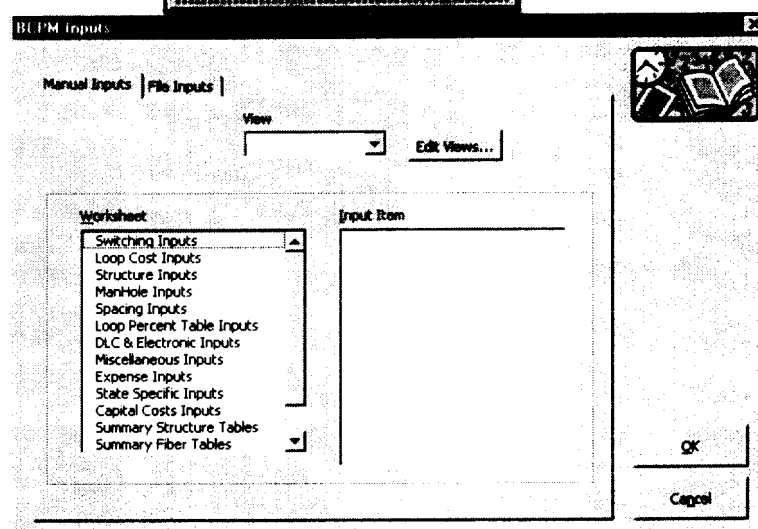
on the **INPUTS** button in the main

## Manual Inputs

When you click on the Inputs Dialog Window. the top of the window. You Dialog Window.



**INPUTS** button you will see the Click on the Manual Inputs tab on will then see the Manual Inputs



**BCPM Inputs**

Manual Inputs | File Inputs

View  Edit Views...

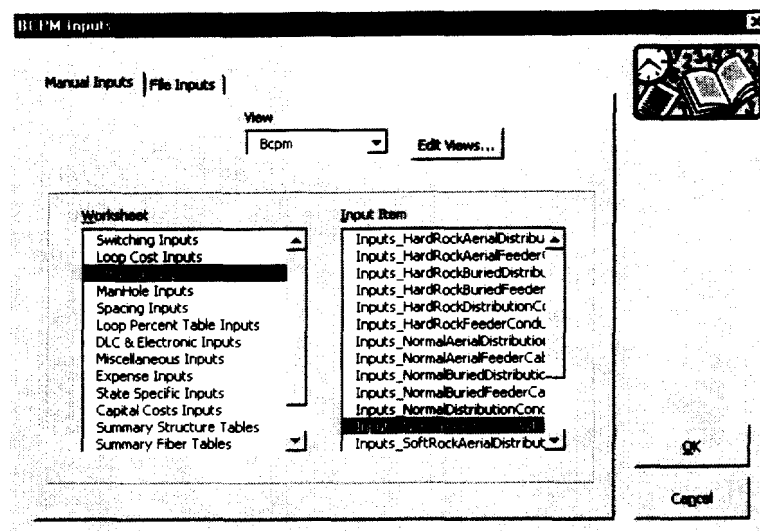
Worksheet

- Switching Inputs
- Loop Cost Inputs
- Structure Inputs
- ManHole Inputs
- Spacing Inputs
- Loop Percent Table Inputs
- DLC & Electronic Inputs
- Miscellaneous Inputs
- Expense Inputs
- State Specific Inputs
- Capital Costs Inputs
- Summary Structure Tables
- Summary Fiber Tables

Input Item

OK Cancel

First, select the view that you want to edit. Then, in the worksheet box, highlight the type of inputs you would like to modify. A list of the input tables will appear. Select the specific inputs you wish to edit. Below is the screen that would appear if you chose to change the inputs relating to normal aerial cable in the BCPM View:



After highlighting the input you wish to change, click on the OK button. The system will run for approximately 30 seconds while it populates the worksheet and displays the appropriate table for editing (shown below).

Microsoft Excel - Inputs.xls

File Edit View Insert Format Tools Data Window Help

Times New Roman 10

Inputs\_NormalFeed... Trench & Backfill

Base		COSTSITY 6-3				COSTSITY 6-100				
Activity	Cost Per Foot Installed	Cost Adjustment	% Activity	% Assigned Telephone	Weighted Amount	Cost Adjustment	% Activity	% Assigned Telephone	Weighted Amount	Cost
19 Trench & Backfill	\$ 2.27	\$	87.30%	100.00%	\$ 1.97	\$	71.60%	95.00%	\$ 1.61	\$ 0.2
20 Rocky Trench	\$ 4.22	\$	0.00%	100.00%	\$	\$ 0.15	0.00%	95.00%	\$	\$ 0.1
21 Backhoe Trench	\$ 2.70	\$	5.30%	100.00%	\$ 0.14	\$ 0.17	19.00%	95.00%	\$ 0.52	\$ 0.1
22 Hand Dig Trench	\$ 4.99	\$	2.00%	100.00%	\$ 0.10	\$ 0.25	2.00%	95.00%	\$ 0.10	\$ 0.1
23 Boring	\$ 11.80	\$	2.30%	100.00%	\$ 0.24	\$ 0.37	2.00%	95.00%	\$ 0.23	\$ 0.1
24 Cut & Restore Asphalt	\$ 8.72	\$	1.00%	100.00%	\$ 0.09	\$ 0.18	2.00%	95.00%	\$ 0.17	\$ 0.1
25 Cut & Restore Concrete	\$ 9.63	\$	1.30%	100.00%	\$ 0.10	\$ 0.16	2.00%	95.00%	\$ 0.19	\$ 0.1
26 Cut & Restore Sod	\$ 3.75	\$	2.00%	100.00%	\$ 0.08	\$ 0.17	2.00%	95.00%	\$ 0.07	\$ 0.1
			100.00%		\$ 2.70		100.00%		\$ 2.69	

Base		COSTSITY 6-3				COSTSITY 6-100				
Activity	Cost Per Foot Installed	Cost Adjustment	% Activity	% Assigned Telephone	Weighted Amount	Cost Adjustment	% Activity	% Assigned Telephone	Weighted Amount	Cost
32 Pile	\$ 1.14	\$	95.00%	100.00%	\$ 1.09	\$ 0.02	76.00%	100.00%	\$ 0.90	\$ 0.1
33 Rocky Pile	\$ 1.37	\$	3.30%	100.00%	\$	\$ 0.02	0.00%	100.00%	\$	\$ 0.1
34 Trench & Backfill	\$ 2.27	\$	0.00%	100.00%	\$	\$ 0.11	10.00%	97.50%	\$ 0.23	\$ 0.1
35 Rocky Trench	\$ 4.22	\$	0.00%	100.00%	\$	\$ 0.15	0.00%	97.50%	\$	\$ 0.1
36 Backhoe Trench	\$ 2.70	\$	2.00%	100.00%	\$ 0.12	\$ 0.00%	6.00%	97.50%	\$ 0.11	\$ 0.1

Ready

Sum=213.401725

NUM

### SPECIAL NOTES

- It is important to notice the toolbar that BCPM 3.0 provides during editing.



- The BCPM Input toolbar allows you to **SAVE, PRINT, COPY, PASTE VALUES** and **Close**.
- Once you have made your data input changes, click on the **SAVE** button on the BCPM bar. **IF YOU DO NOT USE THIS TOOLBAR TO SAVE YOUR CHANGES THEY WILL NOT BE PROPERLY SAVED IN THE PROGRAM FILES.** Do not use the Microsoft Excel toolbar to save your file.
- Only change the items highlighted in blue. The model calculates the numbers in black.
- You may change other inputs in the Excel Workbook that you have opened without going back to the **INPUTS** dialog box. Click on the appropriate tab and scroll to the table you would like to change. Save your modifications using the BCPM Input toolbar. To end your editing session, click **CLOSE** on the BCPM Input toolbar; you will be prompted to save your work as you exit. Once you leave the **INPUTS** screen, click on the Cancel button to return to the main dialog box.
- Do not change the values in the summary tabs at the bottom of the worksheet. The summary tables are calculated by the model and are for viewing purposes only.

## File Inputs

The File Inputs tab allows you to create state-specific data input files for line counts and switch investments by wire center. By creating these files, you can override the line counts and switching investments developed by BCPM. They will be used in model calculations regardless of the View that is selected.

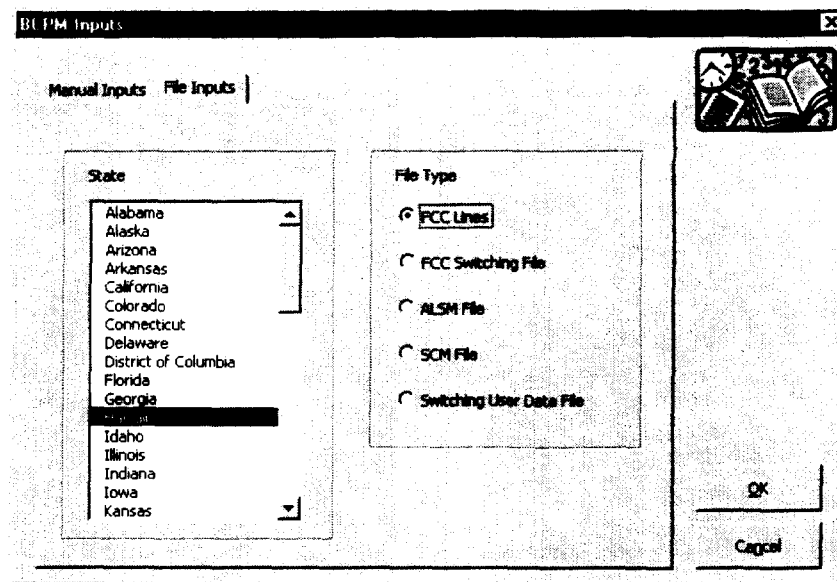
The data input files that you can populate are listed below:

FCC Lines	Includes line counts by wire center in a format matching FCC data requirements. BCPM will adjust grid line estimates at the wire center level to reflect the line counts entered.
FCC Switching File	Worksheet designed to incorporate FCC Switching investments by wire center.
ALSM	Worksheet formatted to allow ALSM (Audited LEC Switching Model) switching investments to be entered by wire center.
SCM	Worksheet formatted to allow SCM (Switching Cost Model) switching investments to be entered by wire center.
Switching User Data	Worksheet designed to allow switching investments from models not listed to be incorporated.

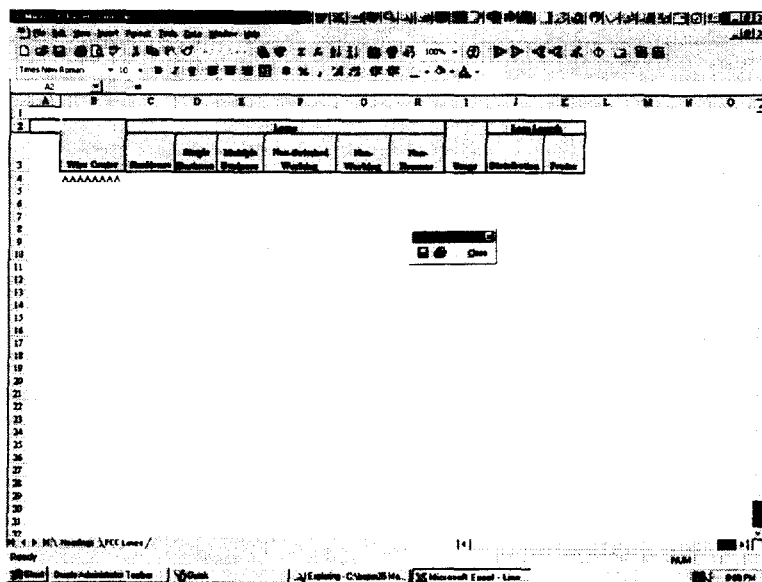
### **Changing File Inputs - FCC Lines**

Below is the screen that is displayed when you click on the File Inputs tab:

To create or change a file, select a state and the type of file you wish to create. BCPM will open



the appropriate worksheet and you can enter the data inputs. The worksheet used for FCC Lines is shown below:



Enter the 8 digit code (not the 11 digit code) for the wire center and the actual lines counts for each column. Use the BCPM toolbar to save your entries.

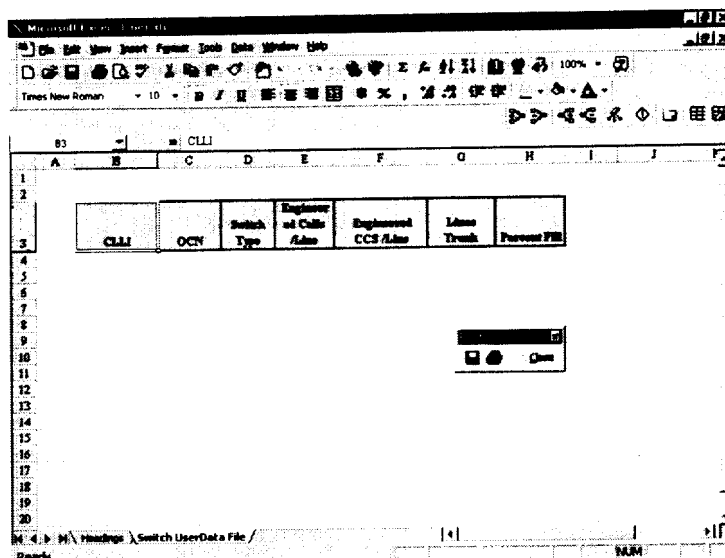
### SPECIAL NOTE

Regardless of the View selected, whenever the FCC Lines file is populated, line estimates will be

adjusted at a wire center level to reflect the data entered.

### ***Changing File Inputs - Switching Investments***

Below the screen that will appear if you chose to create an alternate file for switching investments:



Once you have entered the switching investments by CLLI code, use the BCPM toolbar to save the file. Now, you can produce results by running the model.

## PROCESSING THE MODULES

The **PROCESS** step combines user specific inputs with grid data and BCPM logic to create proxy investment levels.

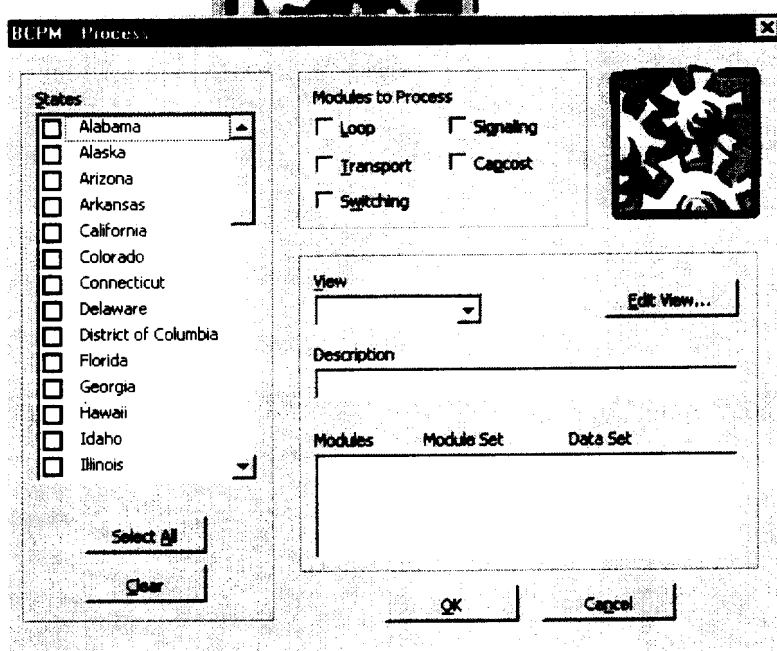
**Note:** The BCPM has been processed under the BCPM View before you received it. It is not necessary to process again to generate reports for the BCPM View. Select **REPORTS** to review the results calculated.

To run the model under a different view or with new user inputs, click the **PROCESS** button on the main dialog box (shown below).

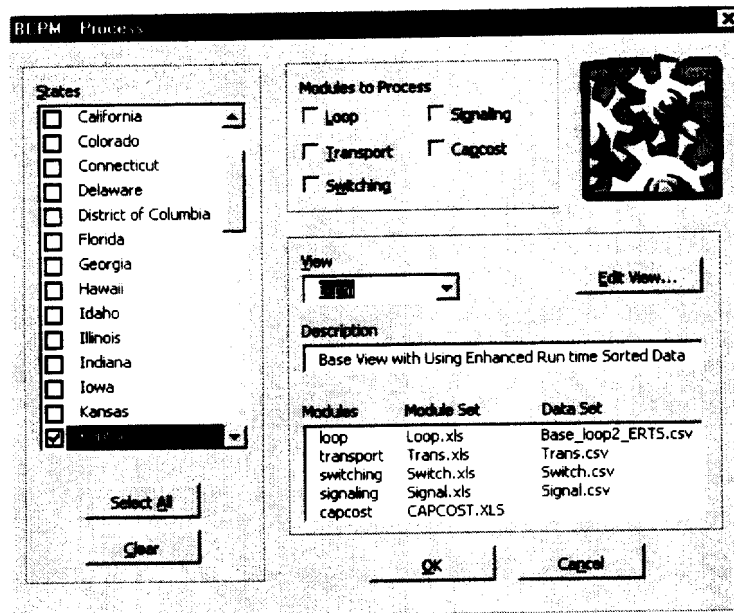
The following dialog box will



appear:



Select the appropriate View from the drop down menu to populate the **PROCESS** dialog box as shown below:



The View selection will automatically display the states that were associated with that particular view. Select the states you would like to process by clicking on the appropriate check boxes.

The Loop, Transport, and Switching Modules produce network investments.

(Signaling investments are incorporated in the Reports Module; a separate module is not yet available.) The Capcost Module develops annual cost factors which are applied to investment in the Reports Module to determine depreciation, cost of money, and taxes. Select the modules you would like to process by selecting the associated check boxes.

After you have selected the states and modules to process, click on the **OK** button. The system will produce results in between 20 minutes to a few hours depending on your hardware setup.

Once this step is complete, you can generate reports.

## Reports

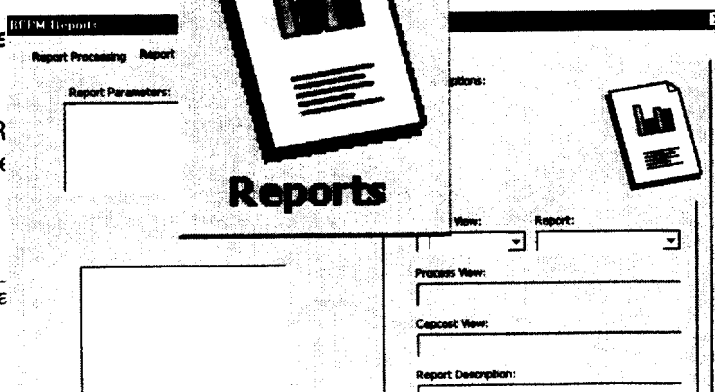
In the Reports Module, Signaling investments are added to the investments developed by the Loop, Switching and Transport Modules. To develop the associated monthly costs, the annual cost factors from the Capcost Module are applied and expenses are calculated.

By selecting the **REPORTS** button from the main dialog box, you can chose reports to process, set report parameters, and select report formats.

The Reports dialog box shown below:

### Report Processing

First, click on Module and Report Processing. The Report Processing dialog box



that is displayed includes three tabs as

Select the View, Capcost Report Processing to calculate monthly costs below:



After you select a View, a list of states that have been processed for this View appears. States that have been selected for the View but not yet processed are also indicated. Select the states you would like results for and click the **OK** button to perform the report calculations. The system will process

for approximately 15 – 30 minutes, depending on your computer hardware.

### SPECIAL NOTE

You can not produce reports for a state unless the Loop, Transport, Switching, and Capcost Modules have been processed for the selected View under **PROCESS**. When you receive BCPM, the modules will have been processed for the BCPM View so that reports can be viewed or printed immediately. For new or other existing Views, you must follow the instructions under **PROCESS** before you generate reports.

The only states that will appear in the state selection box are those that are currently associated with the View displayed. If you would like to process reports for a state not listed, select cancel, **EDIT VIEWS**, and add the state under Selection for the View you are using. Then **PROCESS** the state before returning to **REPORTS**.

### Report Options

Under the Report Options tab, you can indicate the report formats that you would like to view and print under Report Parameters.

You can select sort results by company or by state.

For Summary a on the appropriate

You can indicate how many reports printed for every

The Available F After you have preview and/or

**Report Parameters**

appear. You can by state, or by state by

operated by clicking

. This determines or, a report will be

printed. ameters tab to

Next, establish report parameters by completing the Report Parameters tab shown below:

Select the Report View and Report Type to populate this screen. **You may only select report views that you have processed.** The report options are described below:

- Detail – This will create a workbook with Area Summary, Uncapped Analysis, Capped Analysis, Uncapped Density Summary, Capped Density Summary, Uncapped ARMIS Format, Capped ARMIS Format, Household Summary, Inventory and Variables tabs.
- Summary – This will create a summary workbook based on the inputs on the Report Options tab of the reporting module. The report options are group and report breakout settings in Loop Statistic, Investment Statistic, Residence Aggregate Support, Business Aggregate Support, and Total Aggregate Support.
- WC Summary – This will create a wire center summary report with the same parameters as the summary setting.

After you select the report view and type, set the report parameters by specifying the state, company, holding company, or the wire center you want results for by highlighting your choice and clicking **SELECT** or by clicking twice on the name of the company, state, etc.

Click Preview to view the model results in a worksheet format. A worksheet will appear and a BCPM toolbar which will enable you to Print, Save As and Close. You can use the drop down menu to select the report you wish to view, print or save.

## Review

The review portion of the system is for auditing the module calculations in BCPM. Access this subsystem by click on the **REVIEW** button.

When you click on the dialog window.



**REVIEW** button you will see the Review

When you see this screen you must select a View. Then you can select the module you would like to review. The system will work for several seconds while it pulls module data. You can then select the state and the wire center for review. Click on the **OK** button and the system will present you with the

workbook that contains the calculations for your selection. You can then evaluate the calculations used for your View.

## Technical Support

If you have any questions about the BCPM, call the INDETEC International Help Desk at 1-800-746-4356.

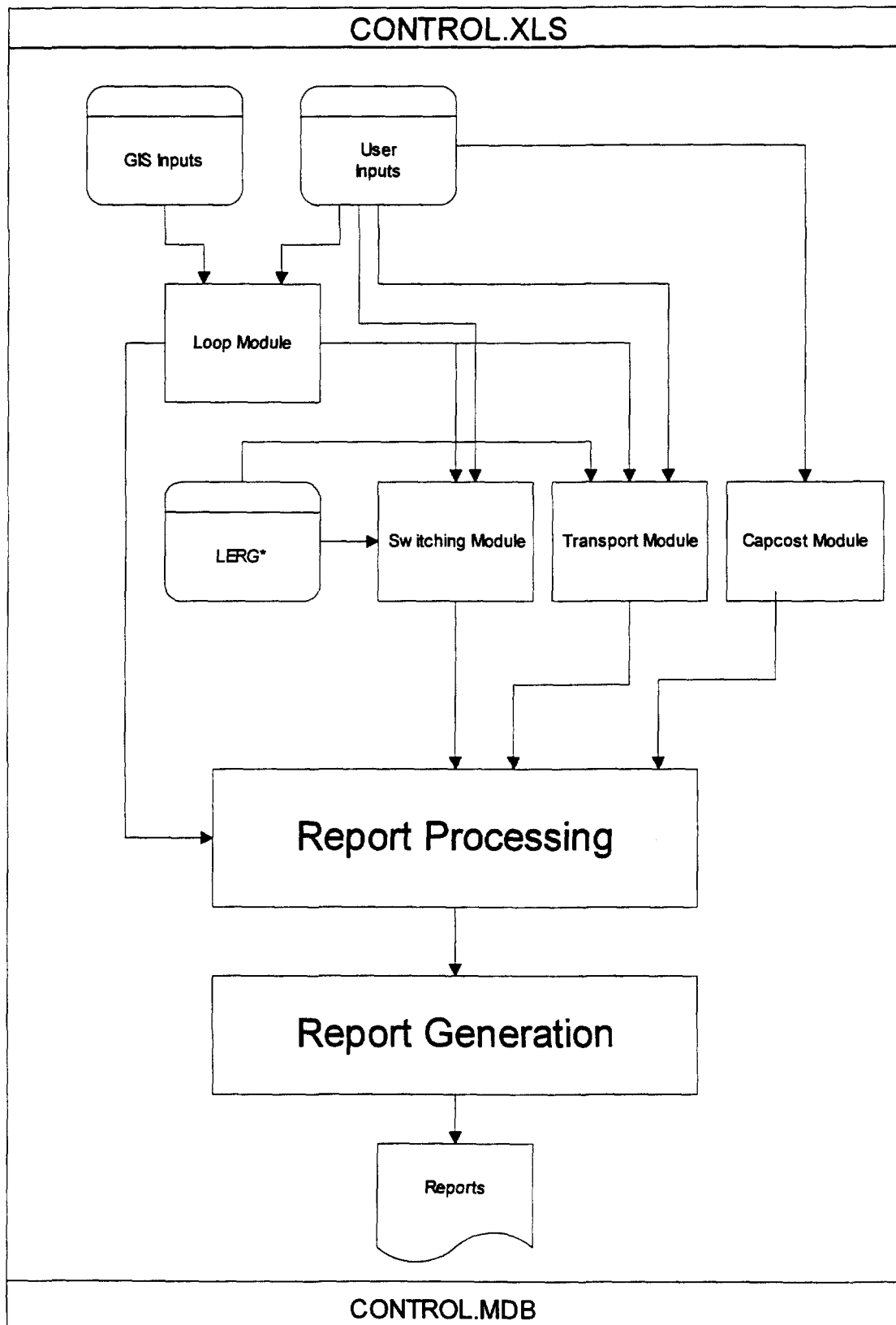


Version 3.0

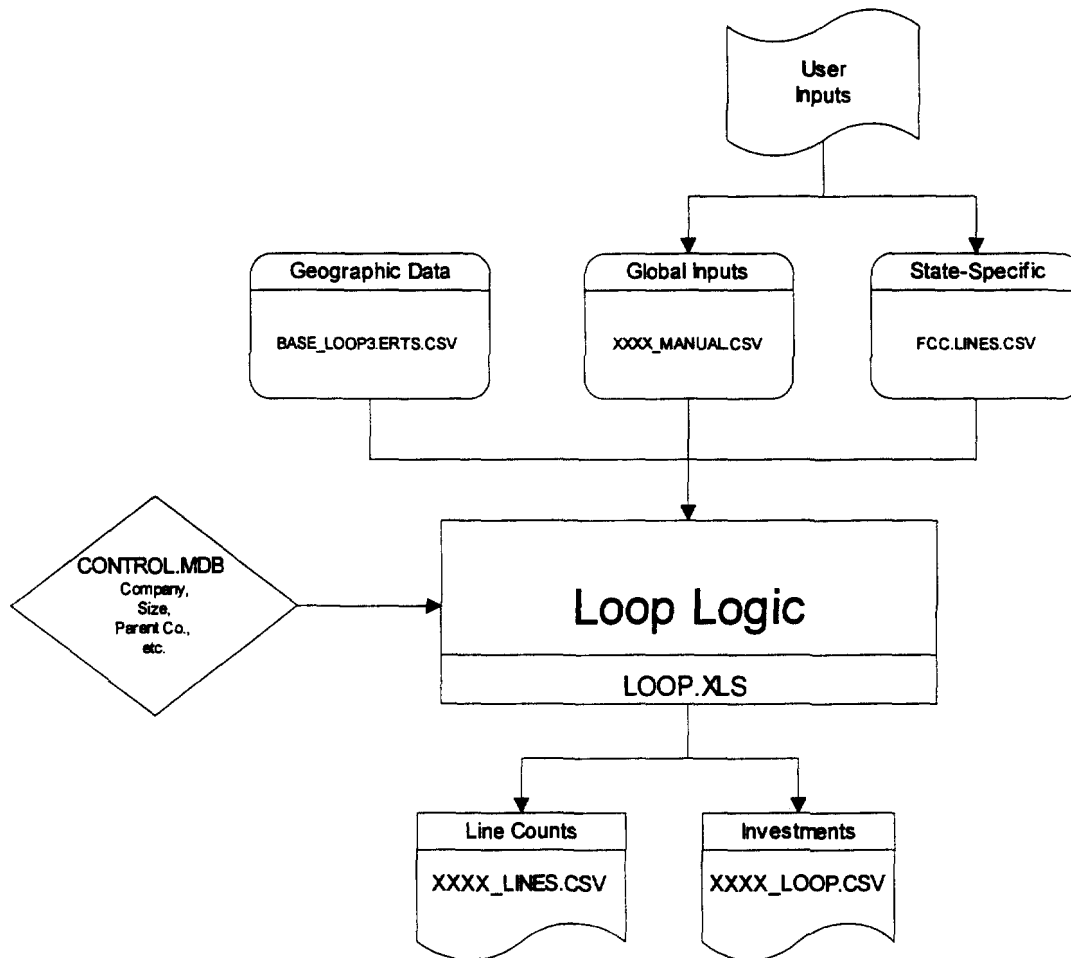
## System Flows

# BCPM Flows

## Version 3.0

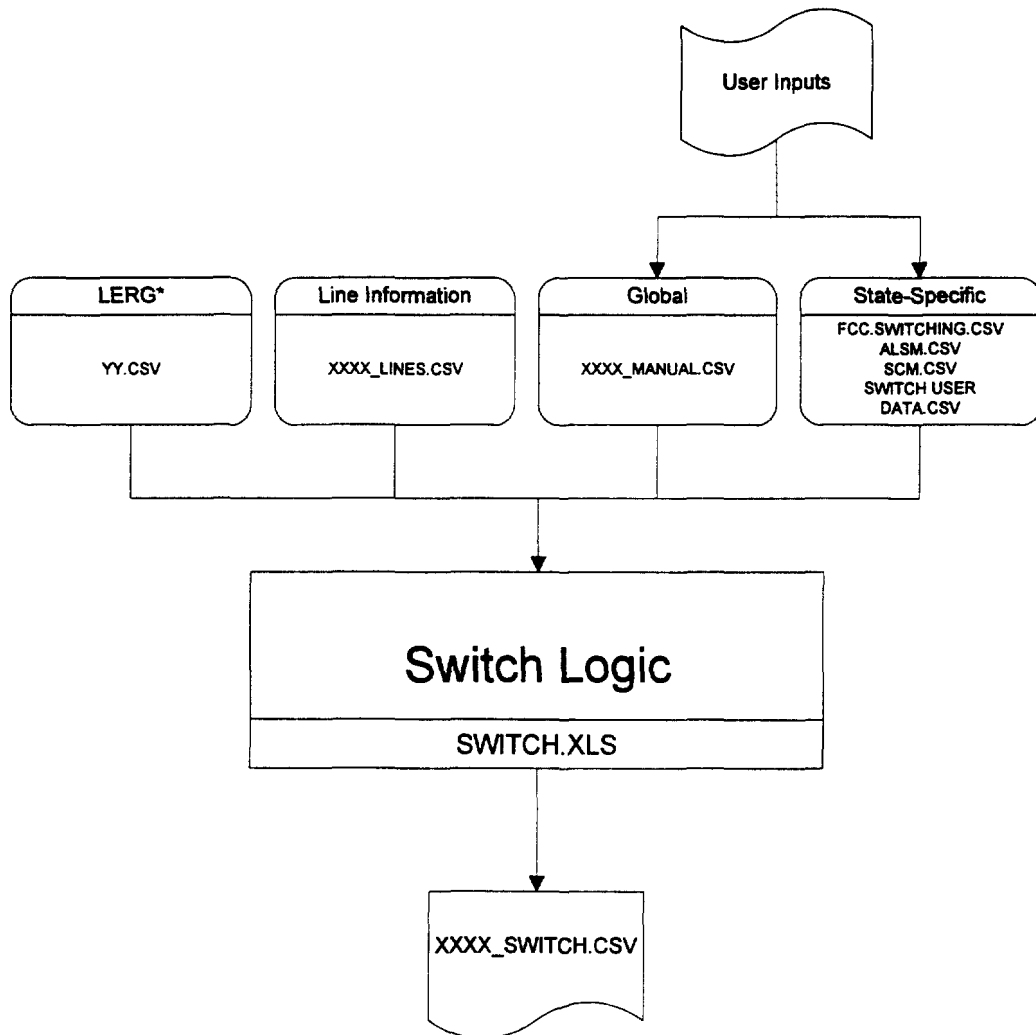


# Loop Module Flows



XXXX = View selected or created by the user

## Switch Module Flows

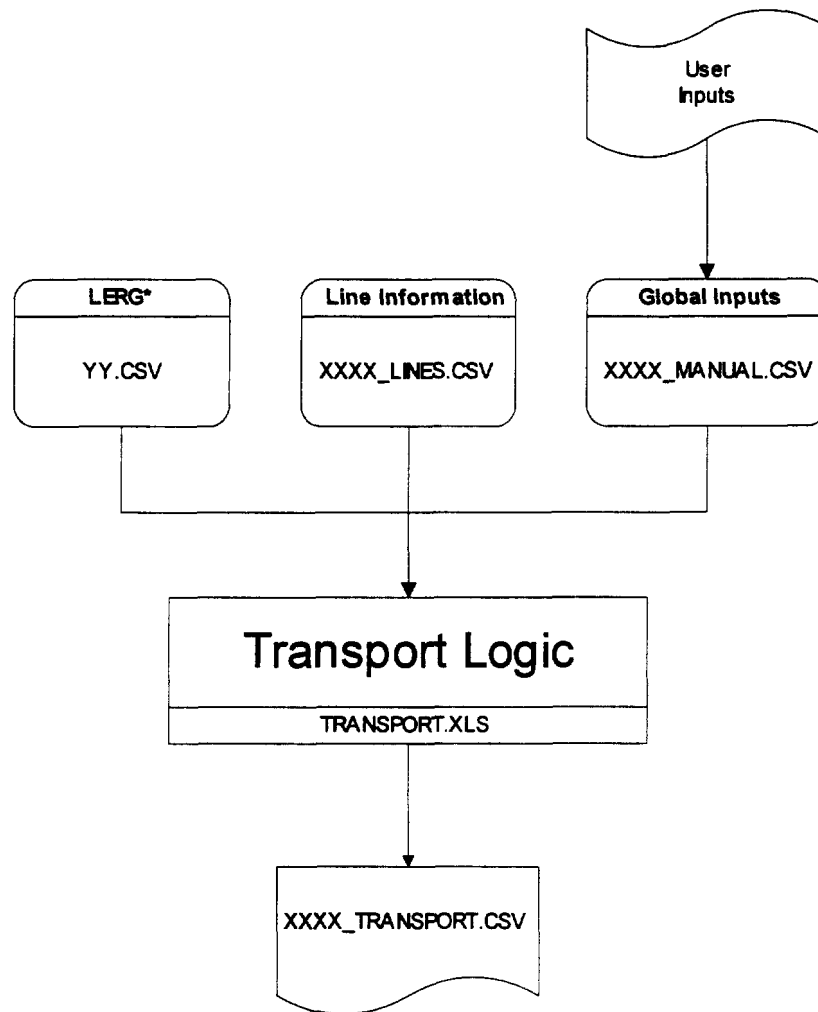


\* Local Exchange Routing Guide

YY = State abbreviation

XXXX = View selected or created by the user

# Transport Module Flows



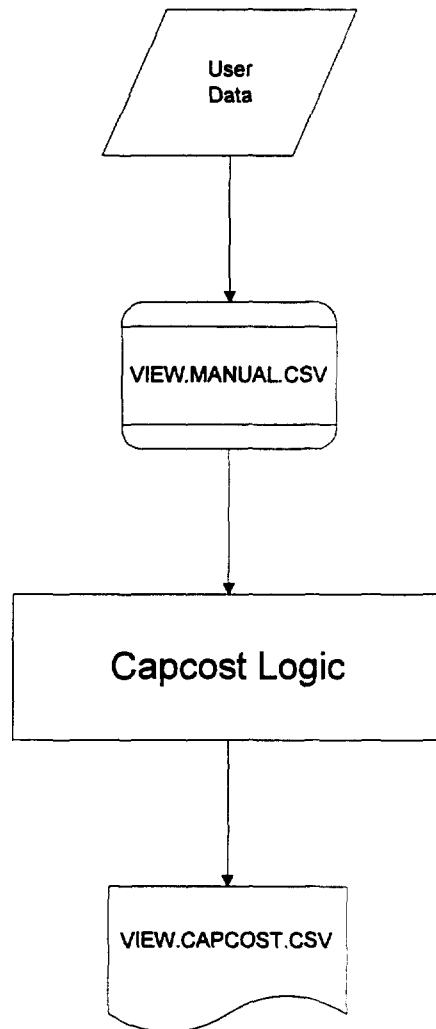
\* Local Exchange Routing Guide

YY = State abbreviation

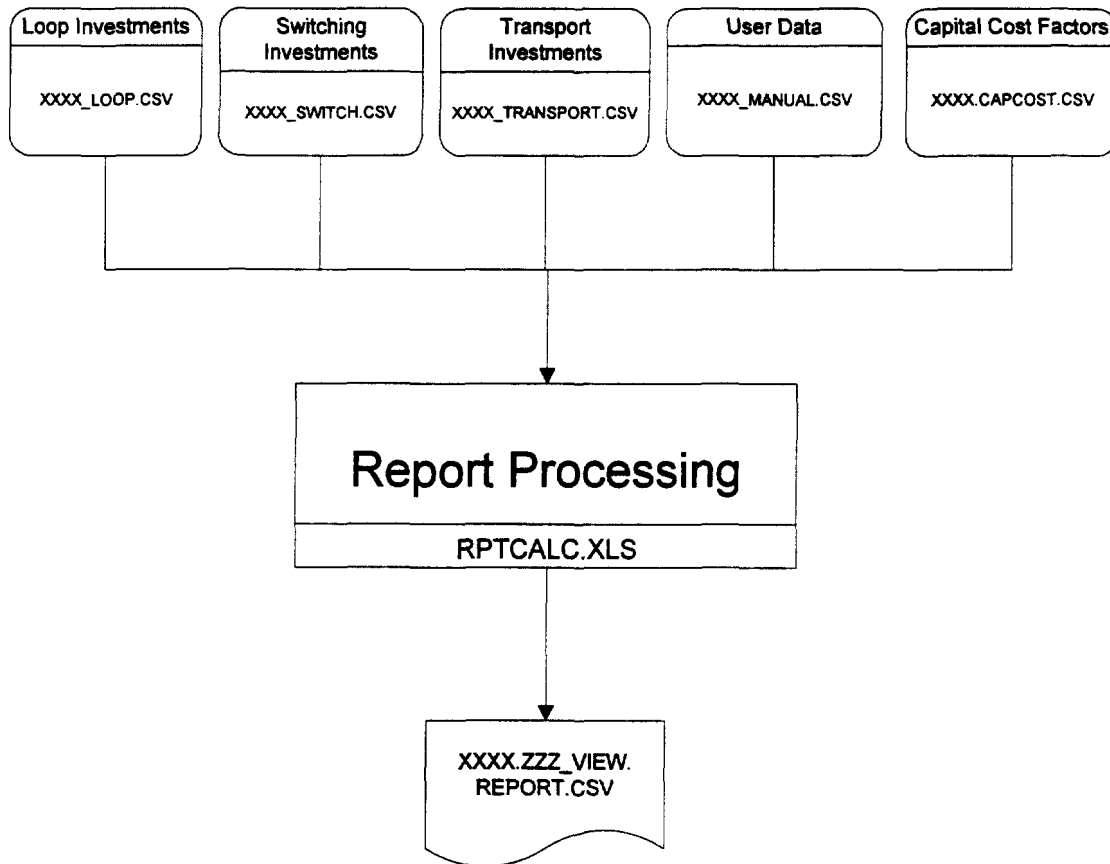
XXXX = View selected or created by the user



## Capcost Module Flows



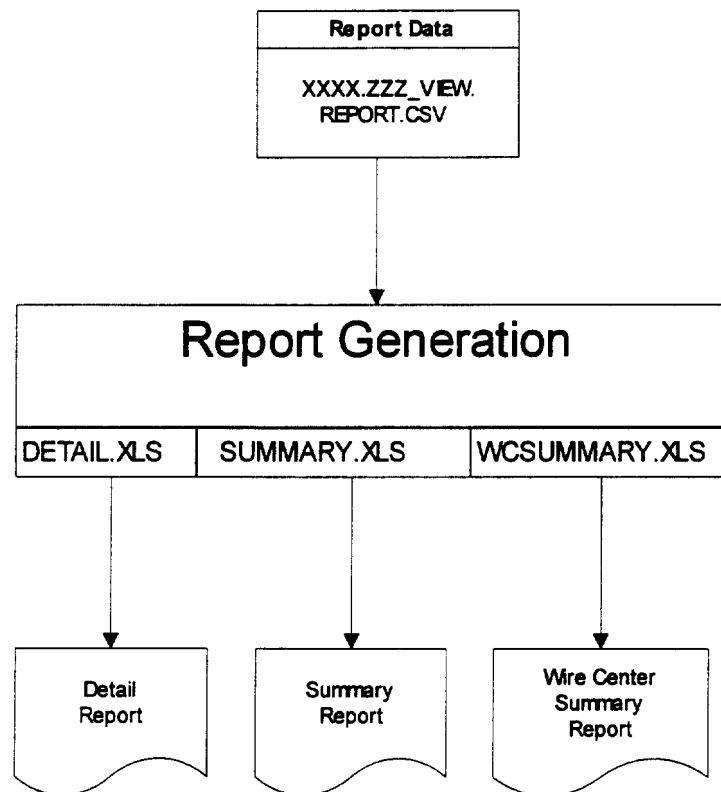
# Report Processing



XXXX = View selected or created by the user

ZZZ = Capital cost module selected by the user

# Report Generation



XXXX = View selected or created by the user

ZZZ = Capital cost module selected by the user

BCPM

Release 3.0

MODEL LOGIC - EXCEL

BCPM

Release 3.0

Excel Logic Loop

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<b>TABLE OF CONTENTS .....</b>	<b>I</b>
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<i>Sheet: Grid Data .....</i>	<i>1</i>
<i>Sheet: Grid Demographics .....</i>	<i>5</i>
<i>Sheet: Distance Calculations.....</i>	<i>7</i>
<i>Sheet: DLC to FDI.....</i>	<i>12</i>
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## System Code

**Workbook: C:\bcm30\modules\loop\Loop3e.xls**

File date: 12/8/97 12:43:14 PM

Comments:

### Worksheets:

Grid Data  
Grid Demographics  
Distance Calculations  
DLC to FDI  
New Distribution  
Term, Drop, & NID  
Subfeeder Part2  
SubFeeder  
Main Feeder  
Electronics & FDI  
Main & Subfeeder Allocation  
Investment  
Output  
Miscellaneous Inputs  
Electronic Tables  
Miscellaneous Tables  
Unit By Density Tables  
Density By Unit Tables  
Fixed Tables  
FCC Data

### Sheet: Grid Data

Col	Range Name	Column Name	Column Comment	Formula	Formula Comment
A	CLLI*	CLli			
B	Latitude	Latitude			
C	Longitude	Longitude			
D	Area_sq_Miles	Area-sq Miles			
E	DepthtoBedrock	Depth to Bedrock (Inches)			
F	RockHardness	Rock Hardness			
G	SurfaceSoilTextur e	Surface Soil Texture			
H	WaterTableDepth	Water Table Depth (Feet)			
I	MinimumSoilSlop e	Minimum Soil Slope			

J	MaximumSoilSlope	Maximum Soil Slope			
K	TotalBusinessLines	Total Business Lines			
L	BusinessLocations	Business Locations			
M	TotalHouseholds	Total Households			
N	HousingUnits	Housing Units			
O	SingleUnitDetachedHULocations	Single Unit Detached HU Locations			
P	SingleUnitAttachedHULocations	Single Unit Attached HU Locations			
Q	_2HUPerDwellinglocations	2 HU Per Dwelling Locations			
R	_3to4HUPerdwellinglocations	3-4 HU Per Dwelling Locations			
S	_5to9HUPerdwellinglocations	5-9 HU Per Dwelling Locations			
T	_10to25HUPerdwellinglocations	10-19 HU Per Dwelling Locations			
U	_25to50HUPerdwellinglocations	20-49 HU Per Dwelling Locations		= IF (ActualLoopCostPerLine > InvLoopCap, InvLoopCap, ActualLoopCostPerLine)	
V	Over50HUPerdwellinglocations	>50 HU Per Dwelling Locations			
W	MobileHULocations	Mobile HU Locations			
X	OtherHULocations	Other HU Locations			
Y	LatitudeAtRoadCentroid	Latitude At Road Centroid			
Z	LongitudeAtRoadCrossing	Longitude At Road Centroid			
AA	AirlineDistance	Airline Distance Feet			
AB	FDICode*	FDI Code			
AC	MainFeederLength	Main Feeder Length			
AD	SubfeederLength	Sub Feeder Length			
AE	Part2SubfeederLength	Part 2 SubFeeder Length			
AF	ULQHousingUnits	ULQ Housing Units			



AG	ULQHouseholds	ULQ Households			
AH	ULQBusinessLines	ULQ Business Lines			
AI	ULQRoadLength	ULQ Road Length			
AJ	ULQArea	ULQ Road Reduced Area			
AK	PreULQHorizontalfttoRoadCentroid	Preliminary ULQ Horizontal Feet To Road Centroid			
AL	PreULQverticalfttoRoadCentroid	Preliminary ULQ Vertical Feet To Road Centroid			
AM	URQHousingUnits	URQ Housing Units			
AN	URQHouseholds	URQ Households			
AO	URQBusinessLines	URQ Business Lines			
AP	URQRoadLength	URQ Road Length			
AQ	URQArea	URQ Road Reduced Area			
AR	PreURQHorizontalfttoRoadCentroid	Preliminary URQ Horizontal Feet To Road Centroid			
AS	PreURQverticalfttoRoadCentroid	Preliminary URQ Vertical Feet To Road Centroid			
AT	LLQHousingUnits	LLQ Housing Units			
AU	LLQHouseholds	LLQ Households			
AV	LLQBusinessLines	LLQ Business Lines			
AW	LLQRoadLength	LLQ Road Length			
AX	LLQArea	LLQ Road Reduced Area			
AY	PreLLQHorizontalfttoRoadCentroid	Preliminary LLQ Horizontal Feet To Road Centroid			
AZ	PreLLQverticalfttoRoadCentroid	Preliminary LLQ Vertical Feet To Road Centroid			
BA	LRQHousingUnits	LRQ Housing Units			
BB	LRQHouseholds	LRQ Households			
BC	LRQBusinessLines	LRQ Business Lines			
BD	LRQRoadLength	LRQ Road Length			
BE	LRQArea	LRQ Road Reduced Area			